

El Paso Natural Gas Company

WORKED OVER WELL NOTICE

Form 23-202 (8-60)

The attached Initial Potential Test was made on this well after workover. This test signifies the completion of the workover, and the well is now ready for reconnection and production into the gathering system.

H. L. Kendrick

Sr. Gas Engineer

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 21, 1965

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Neil No. 5 (OMWO)</u>	
Location <u>Sec 14, T31N, R11W, Section 14, T-31-N, R-11-W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Mesa Verde</u>		Pool <u>Blanco</u>	
Casing: Diameter <u>4.500</u>	Set At: Feet <u>4818</u>	Tubing: Diameter <u>2.375</u>	Set At: Feet <u>4740</u>
Pay Zone: From <u>4232</u>	To <u>4793</u>	Total Depth: <u>4818</u>	Shut In <u>7-14-65</u>
Stimulation Method <u>Sand Water Frac</u>		Flow Through Casing	Flow Through Tubing <u>X</u>

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>	
Shut-In Pressure, Casing, <u>883</u> PSIG	+ 12 = PSIA <u>895</u>	Days Shut-In <u>7</u>	Shut-In Pressure, Tubing <u>883</u> PSIG + 12 = PSIA <u>895</u>
Flowing Pressure: P <u>255</u> PSIG	+ 12 = PSIA <u>267</u>	Working Pressure: P _w <u>770</u> PSIG	+ 12 = PSIA <u>782</u>
Temperature: T = <u>97</u> °F	n = <u>.75</u>	F _{pv} (From Tables) <u>1.021</u>	Gravity <u>.650</u> F _g = <u>.9608</u>

$$\text{CHOKE VOLUME} = Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$$

$$Q = (12.365) (267) (.9662) (.9608) (1.021) = \underline{3129} \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{801,025}{189,501} \right)^n = (4.2270) (3129)^{.75} = (2.9460) (3129) \cdot$$

$$Aof = \underline{9,218} \text{ MCF/D}$$

NOTE: Very heavy fog of distillate and water throughout test.

TESTED BY C.R. Wagner
 CHECKED BY W.D. Dawson
 WITNESSED BY _____

RECEIVED
 JUL 27 1965
 OIL CON. COM.
 DIST. 3
L. D. Galloway
 L. D. Galloway